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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,550	03/10/2004	Yulian Y. Borisov	663-004US	4411
22897 7	7590 01/13/2006		EXAMINER	
DEMONT & BREYER, LLC SUITE 250 100 COMMONS WAY HOLMDEL, NJ 07733			HWU, DAVIS D	
			ART UNIT	PAPER NUMBER
			3752	
		DATE MAILED: 01/13/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/797,550	BORISOV ET AL.			
Office Action Summary	Examiner	Art Unit			
	Davis D. Hwu	3752			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 27 D	<u>ecember 2005</u> .				
,	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>43-46 and 62-93</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Cłaim(s) <u>75-93</u> is/are allowed.					
6)⊠ Claim(s) <u>43-46,70,71 and 74</u> is/are rejected.					
7)⊠ Claim(s) <u>62-69,72 and 73</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct					
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)			
Paper No(s)/Mail Date 3/10/04. 6) Uther: U.S. Patent and Trademark Office					
	etion Summary / Pa	art of Paper No./Mail Date 20060110			

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DETAILED ACTION

1. Application's cancellation of claims 1-42 and 47-61 is acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 43-46, 70, 71, and 74 are rejected under 35 U.S.C. 102(b) as being anticipated by Wiesenberger.

Wiesenberger shows an apparatus comprising an atomizer, wherein the atomizer comprises a body portion, wherein the body portion comprises a gas aperture, an annular gas cavity 81 receiving a flow of gas from the gas aperture, an annular gas nozzle 84 receiving the flow of gas from the gas cavity, wherein a bulk of the flow of gas flows in a first direction through the gas aperture, a bulk of the flow of gas flows in as second direction through the gas nozzle, and the first direction is substantially orthogonal to the second direction (see Figure 6). The atomizer further comprises a resonator 85 spaced apart from the gas nozzle as recited in claim 44 and the body portion comprises a liquid inlet disposed at a marginal region of the body portion, an annular liquid cavity 85 receiving a flow of liquid from the liquid inlet, and a liquid outlet receiving the flow of liquid from the annular liquid cavity as recited in claim 45, and wherein the liquid outlet delivers the flow of liquid to an atomization region 66, 76, and 68 that is disposed proximal to the gas nozzle as recited in claim 46. The gas

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composition as recited in claim 71 is a matter of intended use. The device can also be used for fire suppression in which fire detection devices are known to be a critical part of fire suppression systems.

Allowable Subject Matter

- 4. Claims 62-69, 72, and 73 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 75-93 are allowed.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patent to Fuglistaller et al. is pertinent to Applicant's invention.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davis D. Hwu whose telephone number is 571-272-4904. The examiner can normally be reached on 8:00-4:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on 571-272-4919. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Davis Hwu

DAVIS HWU PRIMARY EXAMINER